Application Serial No: 09/808,973

Attorney Docket No. 79485
In reply to Notice of Non-Compliant Amendment (37 CFR 1.121) of 28 September 2004

## AMENDMENTS TO THE CLAIMS

- 1. (currently amended): An apparatus for remotely and automatically adjusting the <u>a</u> volume of a remotely controlled audio device, comprising:
  - a sensor circuit for detecting audio signals generated by the audio device and generating a signal representative of an amplitude of the detected audio signal;
  - means for obtaining a reference audio signal amplitude from a user;
  - a difference circuit for determining a difference between an amplitude of the signal outputted by the sensor circuit and the reference audio signal amplitude and for generating a difference signal that represents this difference; and
  - a control circuit for generating a control signal that
    effects at least one of attenuation, augmentation and
    maintenance of the amplitude of the audio signals
    generated by the audio device in accordance with the
    difference signal—; and

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- a difference signal transfer circuit that transfers the difference signal to the control circuit when the sensor circuit detects an audio signal.
- 2. (previously presented): The apparatus according to claim 1 wherein the sensor circuit further comprises an amplifier for amplifying the detected audio signal before it is outputted to the difference circuit.
- 3. (original): The apparatus according to claim 1 wherein the sensor circuit comprises a directional microphone for detecting audio signals outputted by the device.
- 4. (previously presented): The apparatus according to claim 1 wherein the means for obtaining a reference audio signal amplitude provides the audio signal amplitude in digital form, and the difference circuit further comprises an analog-to-digital-converter for converting the detected audio signal amplitude into digital data.
- (canceled)

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- 6. (currently amended): The apparatus according to claim [[5]]

  1 wherein the difference signal transfer circuit comprises a sound activation circuit.
- 7. (original): The apparatus according to claim 1 wherein the control signal effects attenuation of the amplitude of the audio signals generated by the audio device when the amplitude of the sensor circuit output signal exceeds the reference audio signal amplitude by a predetermined magnitude.
- 8. (original): The apparatus according to claim 1 wherein the control signal effects augmentation of the amplitude of the audio signals generated by the audio device when the reference audio signal amplitude exceeds the amplitude of the sensor circuit output signal by a predetermined magnitude.
- 9. (original): The apparatus according to claim 1 wherein the control signal effects maintenance of the amplitude of the audio signals generated by the audio device when the amplitude of the sensor circuit output signal is generally the same as the reference audio signal amplitude.
- 10. (original): The apparatus according to claim 1 wherein the control circuit comprises a transmitter circuit for transmitting

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the control signal to a control signal receiver of the audio device.

- 11. (original): The apparatus according to claim 1 further comprising a switch that permits a user to activate or deactivate the apparatus.
- 12. (original): The apparatus according to claim 1 further comprising a sound activation circuit that transfers the difference signal to the control circuit when the sensor circuit detects an audio signal.
- 13. (currently amended): An apparatus for remotely and automatically adjusting the <u>a</u> volume of a remotely controlled audio device, comprising:
  - a directional microphone for detecting audio signals

    generated by the audio device and generating a signal
    representative of an amplitude of the detected audio
    signal;

obtaining a reference audio signal amplitude from a user;

a difference circuit for determining a difference between an amplitude of the signal outputted by the

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directional microphone and the reference audio signal amplitude and for generating a difference signal that represents this difference;

- a control circuit for generating a control signal that
  effects at least one of attenuation, augmentation and
  maintenance of the amplitude of the audio signals
  generated by the audio device in accordance with the
  difference signal; and
- a sound activation circuit for transferring the difference signal to the control circuit when the directional microphone detects an audio signal.
- 14. (currently amended): A method for remotely and automatically adjusting the <u>a</u> volume of a remotely controlled audio device, comprising:

detecting an audio signal generated by the audio device;

generating a detected audio amplitude signal representative of an amplitude of the detected audio signal;

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obtaining a reference audio signal amplitude from a user;

determining a difference signal as the difference between the detected audio amplitude signal and the reference audio signal amplitude; and

that adjusts the volume effects at least one of attenuation, augmentation and maintenance of the amplitude of the audio signals outputted generated by the audio device in accordance with the difference signal if the detected audio amplitude varies greater than a predetermined amount from the reference audio signal amplitude—; and

by means of a difference signal transfer circuit when an audio signal is detected.

- 15. (previously presented): The method according to claim 14 further comprising amplifying the detected audio amplitude signal.
- 16. (canceled).

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- 17. (previously presented): The method according to claim 14 further comprising converting the detected audio amplitude signal into digital audio amplitude signal.
- 18. (previously presented): The method according to claim 17 wherein
  - the step of obtaining comprises obtaining a digital reference audio signal amplitude; and
  - the step of determining further includes comparing the digital audio amplitude signal and the digital reference audio signal amplitude.
  - 19. (original): The method according to claim 14 further including transmitting the control signal to a control signal receiver of the audio device.
  - 20. (previously presented): The method according to claim 14 wherein generating the control signal comprises generating a control signal that reduces the volume of the audio signals generated by the audio device when the detected audio amplitude signal exceeds the reference audio signal amplitude by a predetermined magnitude.

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- 21. (previously presented): The method according to claim 14 wherein generating the control signal comprises generating a control signal that increases the volume of the audio signals generated by the audio device when the reference audio signal amplitude exceeds the detected audio amplitude signal by a predetermined magnitude.
- 22. (previously presented): The method according to claim 14 wherein generating the control signal comprises generating a control signal that maintains the volume of the audio signals generated by the audio device when the detected audio amplitude signal is within a predetermined magnitude of the reference audio signal amplitude.
- 23. (original): The method according to claim 14 wherein detecting the audio signal comprises:

providing an acoustic signal sensor; and

positioning the sensor so as to facilitate reception of the audio signals generated by the audio device.